SRF-SX80RV

SERVICE MANUAL

Tourist Model

SPECIFICATIONS

Frequency range
TV: 1 – 12 ch (only in Japan)
FM: 76 – 108 MHz
AM: 530 – 1710 kHz
Power output
10mW + 10mW
Power requirements
3V DC, two R03 (size AAA) batteries
Power auto-off function
Approx. 90 minutes
Dimensions
Approx. 60 x 105 x 20 mm (w/h/d)
(2 3/8 x 4 1/4 x 13/16 inches)
Mass
Approx. 100 g (3.5 of) incl.batteries
Supplied accessories
Sony R03 (size AAA) batteries (2)
Carrying case (1)

Design and specifications are subject to change without notice.

Features

- Equipped with retractable earphones.
- High sensitivity for clear tuning even in the areas with weak broadcast waves.
- A beep notifies you when the preset period has past. — Timer function
- Power goes off automatically in about 90 minutes. — Power auto off function
- Major stations are easily received by choosing the area name and station number. Stations in Japan's seven big cities (Sapporo, Sendai, Tokyo, Nagoya, Osaka, Hiroshima and Fukuoka) and broadcasts in the Tokaido- and Sanyo-Shinkansen (Bullet train) are preset. — Area call tuning (only in Japan)
- Up to 7 stations in TV 1 to 12 (only in Japan), FM and AM band can be stored for button-touch tuning. — My memory tuning

NOTES ON CHIP COMPONENT REPLACEMENT

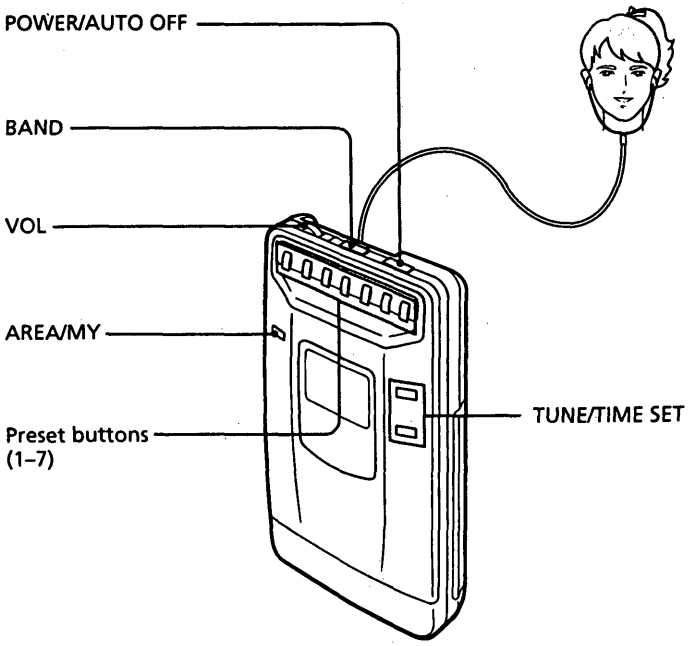
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

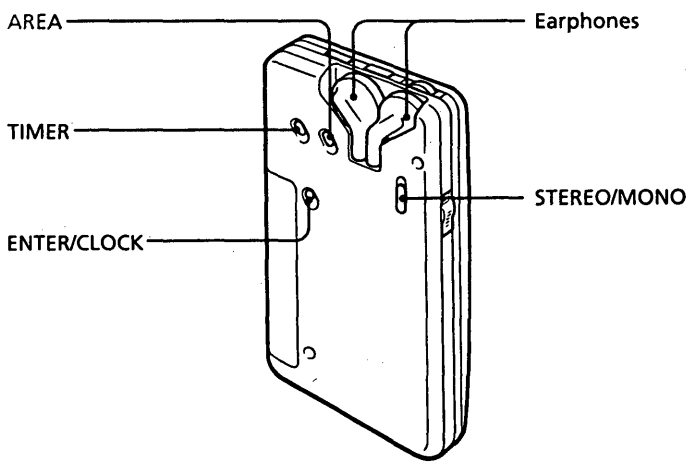
TV(1-12ch)/FM STEREO/AM PLL SYNTHESIZED RADIO

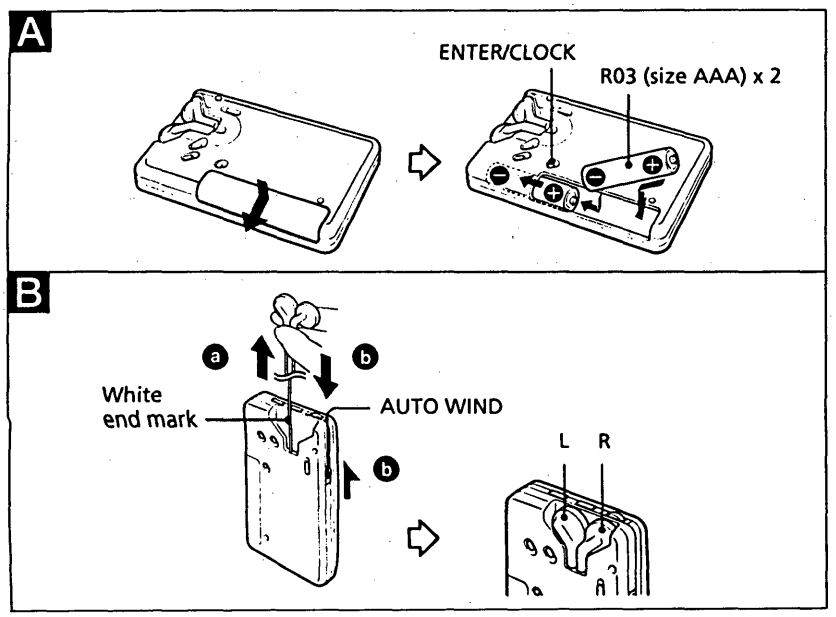
SONY®

SECTION 1
GENERAL

This section is extracted from instruction manual.







Installing Batteries (See ill. A)

1 Pull out the battery holder.

2 Install two R03 (size AAA) batteries with polarities correctly aligned.
When you install batteries for the first time, the display will flash "AM 12:00."
To stop the flashing, press **ENTER/CLOCK**.
For setting the clock, see "Setting the Clock."

3 Shut the battery holder.

Battery life

— Using Sony R03 (size AAA) batteries

TV: Approx. 12 hours
FM: Approx. 19 hours
AM: Approx. 22 hours

Knowing when to replace the batteries

You should replace both batteries with new ones when ⌫ flashes in the display.

- If more than 20 seconds pass, the preset stations may be lost. In this case, perform the clock setting and the "My memory" presetting procedures again.
- After the batteries are replaced, ⌫ continues flashing. Press the **POWER/AUTO OFF** button to turn off "⌫" in the display.

Using the Built-in Earphones

Pulling out the Earphones (See ill. B-a)

Notes

- Take both the ear pieces gently from the earphone compartment, then pull out the earphone cord by grasping the cord.
  Do not pull it out by the ear pieces, as this may cause a malfunction.
- The white mark on the earphone cord shows the end of the cord. When it is exposed, do not pull the cord any further.

Winding the Built-in Earphone Cord (See ill. B-b)

While holding the earphone cord, press **AUTO WIND** until the ear pieces are fitted into the earphone compartment.

When the earphone cord does not wind completely

Pull the cord out about 5 cm (2 inches) and press **AUTO WIND** again.

Note

If you pull out or wind the earphone cord while listening to the radio, noise may be heard.

▶ Operating the Radio

Before You Turn the Radio On

The AM channel step differs depending on area. The AM channel step of this unit is factory-set to 9 kHz to match the frequency allocation system of the country as listed. You can change the channel step.
See "Changing the AM Channel."

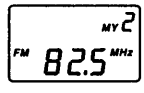
Area	AM channel step
North and South American countries	10kHz
Other countries	9kHz

Tuning in the Radio Manually — Manual Tuning

1 Press **POWER/AUTO OFF** to turn on the power.

2 Select TV (only in Japan), FM or AM with **BAND**.

3 Tune in the desired station by pressing the **TUNE/TIME SET** + or – button.
Press + to increase or – to decrease the digits. When you hold the button down, the digits change rapidly.



To turn off the radio

Press **POWER/AUTO OFF** again.

When the power is turned off automatically

The radio will turn off automatically in about 90 minutes to prevent unnecessary wear of the batteries. (POWER/AUTO OFF function)
To continue listening to the radio, press **POWER/AUTO OFF** again.

To receive FM stereo

Set the **STEREO/MONO** selector to **STEREO**. However, if there is an annoying noise, set it to **MONO**.

Registering the Desired Station — "My Memory" Tuning

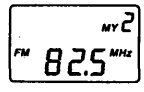
Once you preset the desired stations, you can tune them in by a simple operation. You can preset up to 7 stations of the TV (only in Japan), FM and AM bands.

Presetting the Station

1 Tune in the desired station to preset.

2 While holding down **ENTER/CLOCK**, press a desired preset button 1 to 7.
When the beep sounds twice, the station is preset.

Example: Display showing FM 82.5 MHz preset for preset button 2.

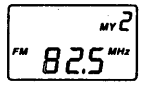


To change the preset station

To change the preset station, repeat steps 1 to 2. The station previously preset to the button is canceled.

Tuning in a Preset Station

1 Press **AREA/MY** to change to "My memory" mode.



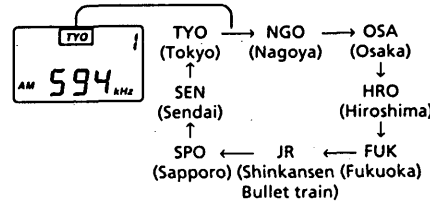
2 Press the desired preset button (1 – 7).

Tuning Stations in Japan's Seven Big Cities — Area Call Tuning (only in Japan)

You can easily receive major stations in the seven big cities and broadcasts in the Tokaido- and Sanyo-Shinkansen (Bullet train) because they are already preset in memory.

1 Turn on the **POWER**.

2 Select your area or Shinkansen name by pressing **AREA**.
Every press changes the area indicator as follows.



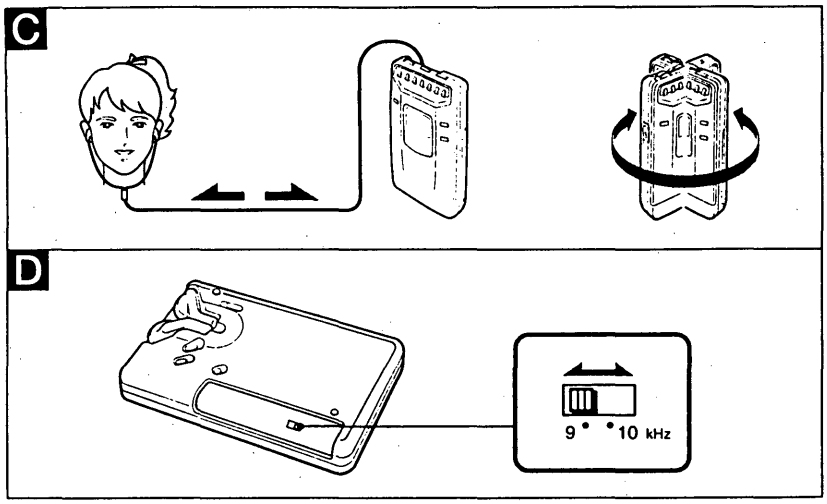
3 Select TV 1 – 12, FM or AM with **BAND**.

4 Press the desired preset button (1 – 7).

5 Adjust **VOL** (volume).

Notes

- When the power is off, you cannot change the area.
- Even outside the broadcast range of these seven big cities, preset local stations may sometimes be received.
- To register the desired station, see "Registering the Desired Station — My Memory Tuning."



Improving Radio Reception (See ill. C)

FM/TV (only in Japan): Since the earphone cord serves as the antenna, extend the earphone cord to increase the sensitivity.
AM: The ferrite antenna is built in to the unit. Rotate the unit horizontally for optimum reception.

Changing the AM Channel (See ill. D)

The channel step of this unit is factory-set to 9 kHz. In some countries in North America and South America the frequency allocation system is based on 10 kHz. You can change the channel step.

1 Turn off the **POWER**.

2 Remove the batteries.

3 Leave the unit more than 3 minutes.

4 Change the channel step selector to "**10 kHz**" by using a pointed stick.

5 Install the batteries.

Note

When you change the AM channel step, the preset stations are canceled.When you want to preset the stations in another country, set them again.
- Stations preset to the "My memory" function.
- Clock setting
- Timer setting

Setting the Clock

1 Turn off the **POWER**.

2 While holding down **ENTER/CLOCK**, press either **TUNE/TIME SET** + or – until the correct time appears in the display. Press + to increase or – to decrease the digits. When you hold the button down, the digits change rapidly.

3 Release **ENTER/CLOCK**.
":" starts flashing and the clock begins operating.

Note

Displayed by 12-hour system
AM 12:00 = midnight
PM 12:00 = noon

Sounding the Beep at the Desired Time

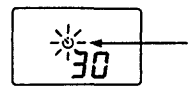
You can make the unit sound its beep through the earphones a certain number of minutes later. (Timer function)
Use this feature to remind you of an appointment, etc.

Setting the Timer

1 Turn off the **POWER**.

2 While holding **TIMER** down, press **TUNE/TIME SET** + or – to store the desired period in minutes after which you want the beep to sound.
You can store periods from 1 to 180 minutes (3 hours) at one minute intervals.

Example: To sound the beep after 30 minutes



"⏲" flashes in the display while you press **TIMER**.

3 Release **TIMER**.
When the stored period has passed, "⏲" stops flashing and the beep sounds.
When the beep sounds while you are listening to the radio, the radio reception is interrupted and resumes when the beep stops.

To stop the beep

Press any button.
If you do not stop the beep, it stops automatically after about 3 minutes.

To cancel the timer setting

Press **TIMER** again. "⏲" disappears.

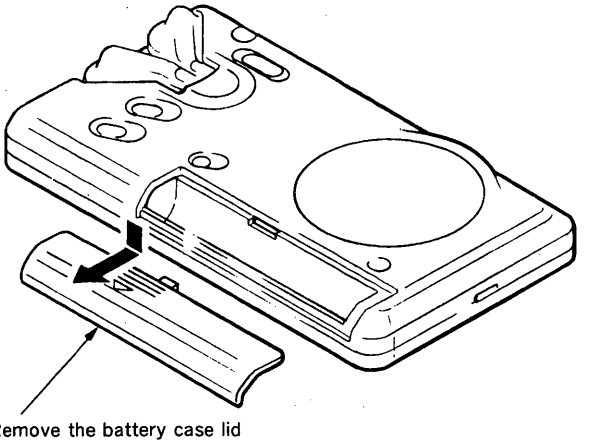
Note

When you stop the beep, the timer setting is canceled.

SECTION 2
DISASSEMBLY

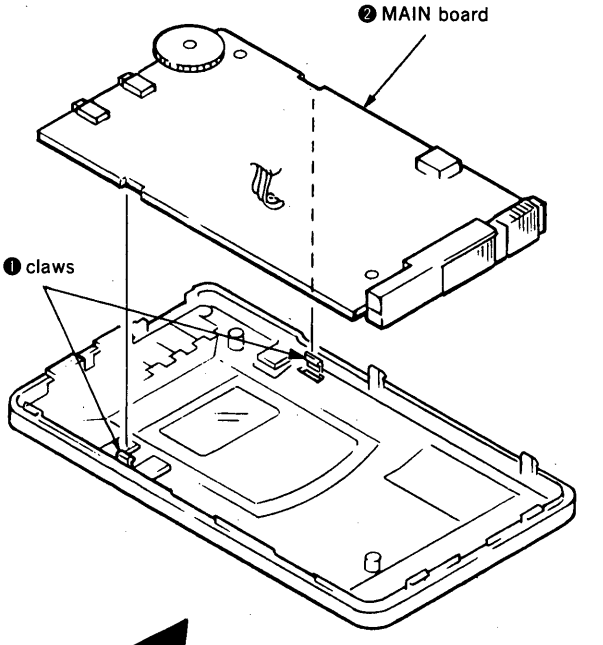
Note : Follow the disassembly procedure in the numerical order given.

2-1. BATTERY CASE LID

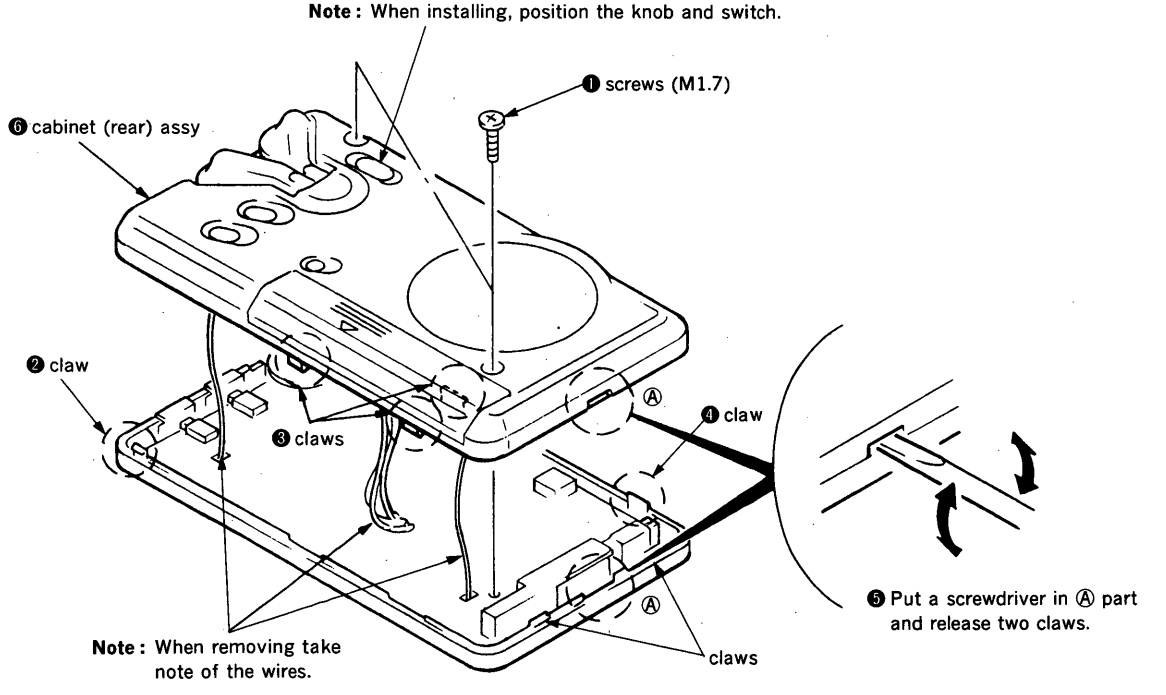


❶ Remove the battery case lid in the direction of arrow.

2-3. MAIN BOARD

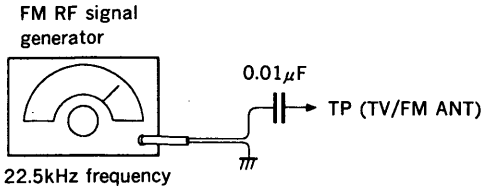


2-2. CABINET (REAR) ASSY

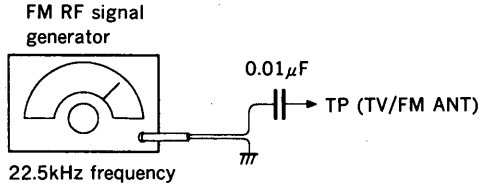

Note : When installing, position the knob and switch.
❶ screws (M1.7)
❻ cabinet (rear) assy
❷ claw
❸ claws
Ⓐ
❹ claw
Ⓐ
❺ Put a screwdriver in Ⓐ part and release two claws.
Note : When removing take note of the wires.
claws

SECTION 3
ELECTRICAL ADJUSTMENTS

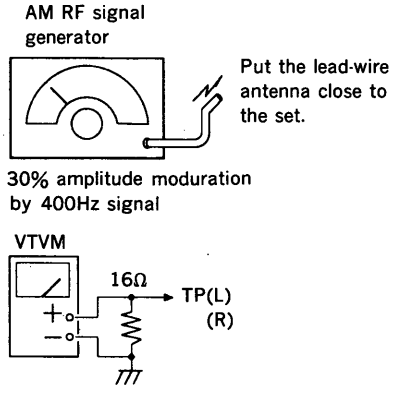
TV (H) Section



FM/TV (L) Section



AM Section



TV (H) CENTER FREQUENCY ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T101	10.7MHz

TV (H) TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
CT101	8ch

FM/TV (L) TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
L201	76.0MHz
CT202	108MHz

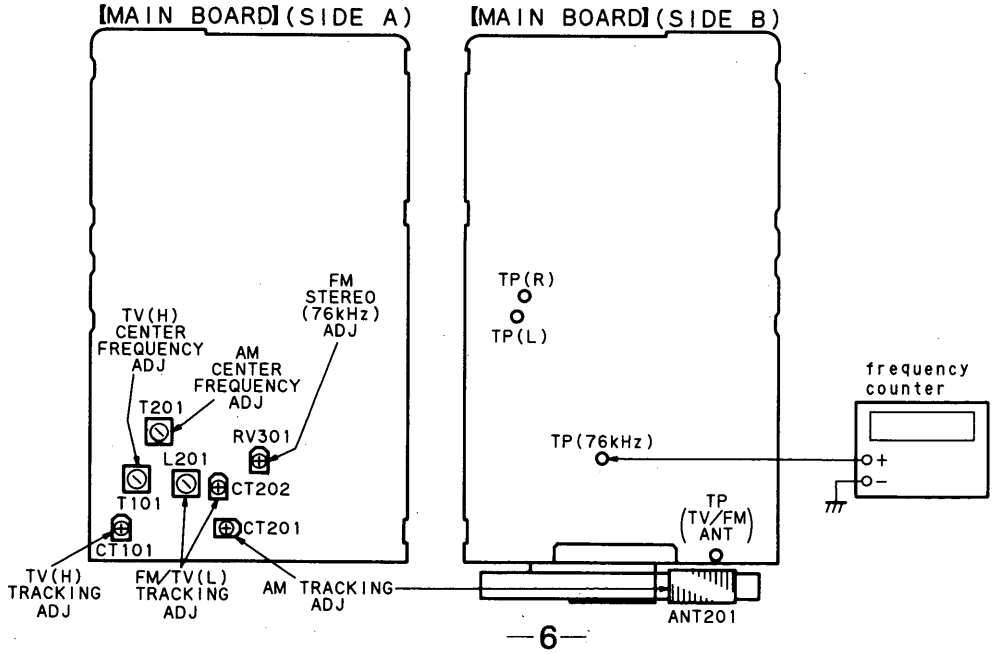
FM STEREO (76kHz) ADJUSTMENT		
ADJUSTMENT RESISTOR	FREQUENCY DISPLAY	READING ON FREQUENCY COUNTER
RV301	TV3ch (107.75MHz)	76kHz±200Hz

AM CENTER FREQUENCY ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
T201	450kHz

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
ANT201	585kHz
CT201	1,485kHz

- Repeat the procedures in each adjustment several times, and the tracking adjustment should be finally done by the trimmer capacitor.

Adjustment Location :



SECTION 4
DIAGRAMS

4-1. PRINTED WIRING BOARDS

• Semiconductor Location

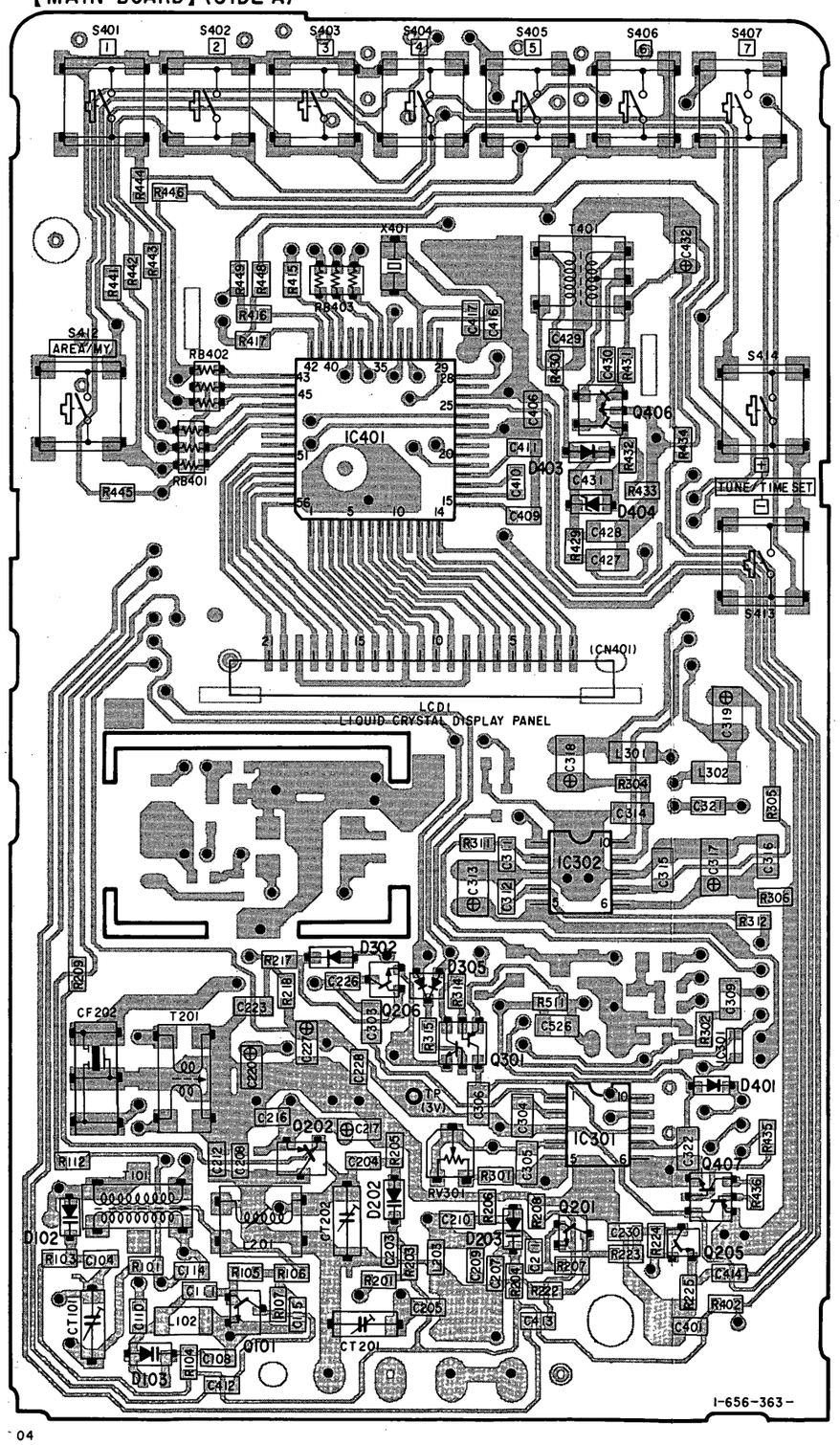
Ref. No.	Location
D102	G-1
D103	H-2
D104	G-10
D201	G-8
D202	G-3
D203	G-3
D301	E-7
D302	F-3
D304	B-9
D305	F-3
D401	F-5
D403	C-4
D404	C-4
IC101	H-9
IC201	F-9
IC301	G-4
IC302	E-4
IC401	C-3
IC402	D-9
IC403	D-8
Q101	H-2
Q102	G-10
Q103	D-10
Q201	G-4
Q202	G-2
Q203	F-10
Q205	G-4
Q206	F-3
Q207	C-10
Q301	F-3
Q401	C-7
Q402	C-7
Q403	C-7
Q406	C-4
Q407	G-4

Note :

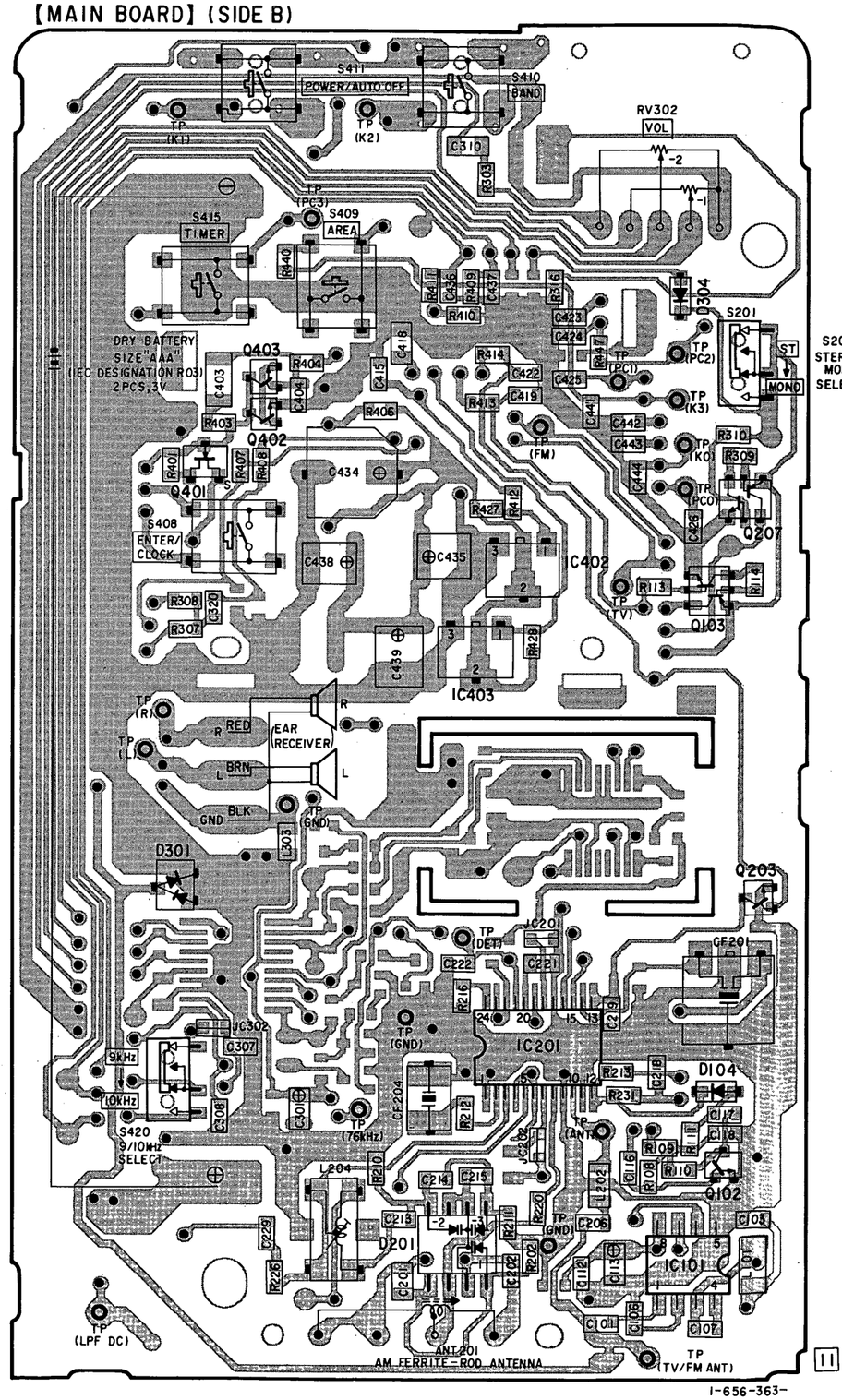
- ○— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.

(The other layer's patterns are not indicated.)

【MAIN BOARD】(SIDE A)



【MAIN BOARD】(SIDE B)

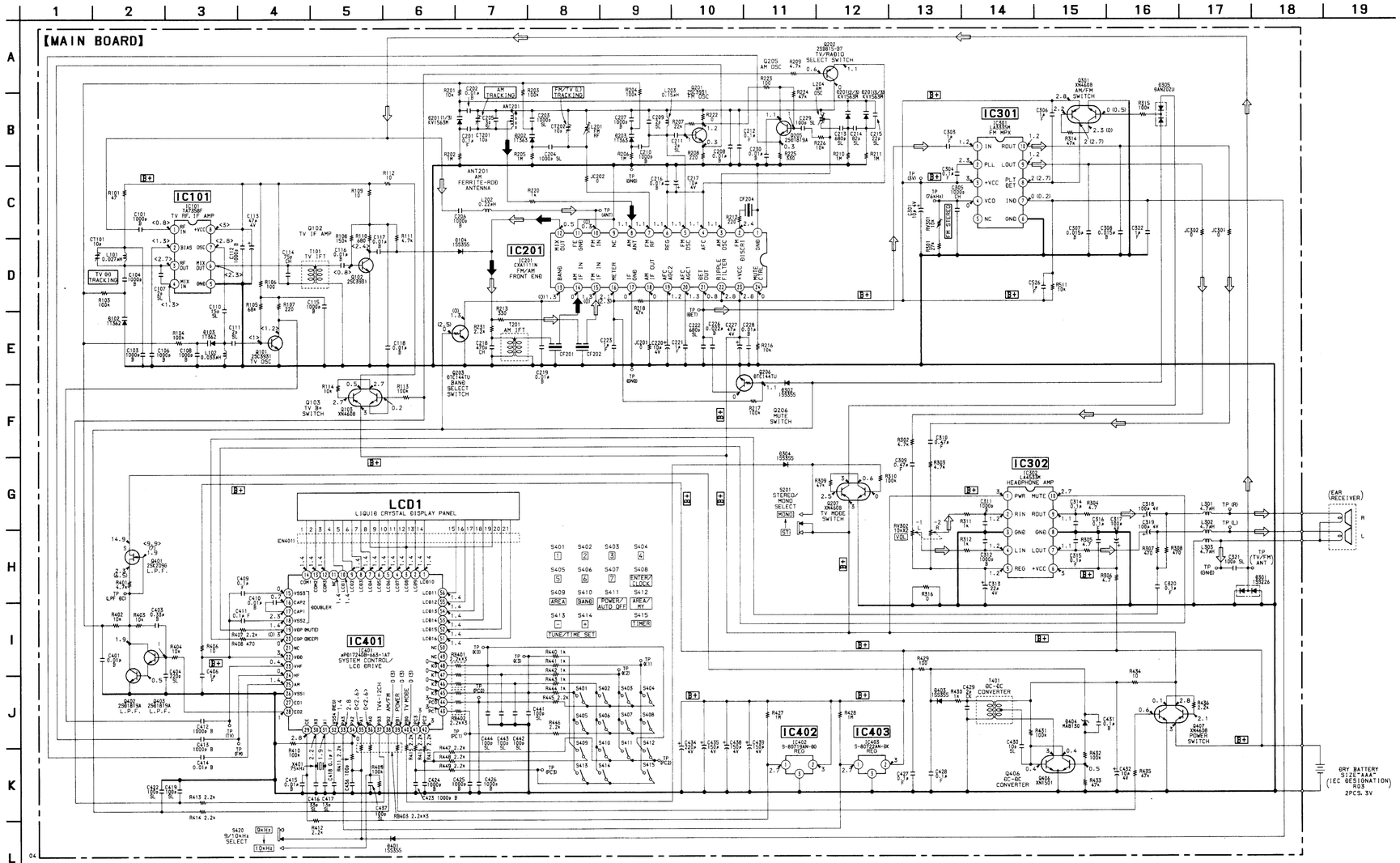


Note:

- ○— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.

(The other layer's patterns are not indicated.)

4-2. SCHEMATIC DIAGRAM • Refer to page 12 for IC Block Diagrams.

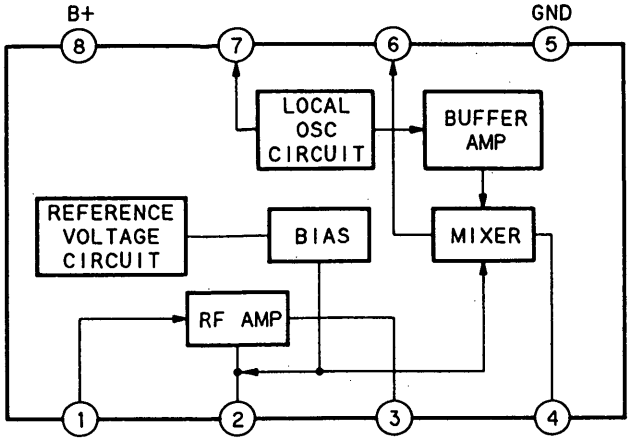


Note :

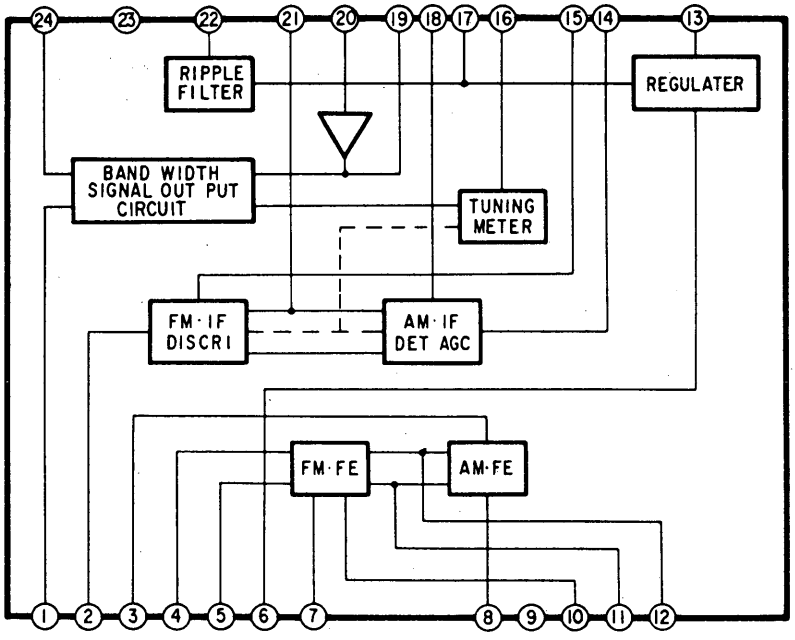
- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- B+ : B+ Line
- ▭ : adjustment for repair.
- Power voltage is dc 3V and fed with regulated dc power supply from battery terminal.
- Voltage is dc with respect to ground under no signal (detuned) conditions.
- no mark: FM
  ( ): AM
  < >: TV
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
  ➡ : AM

• **IC Block Diagrams**

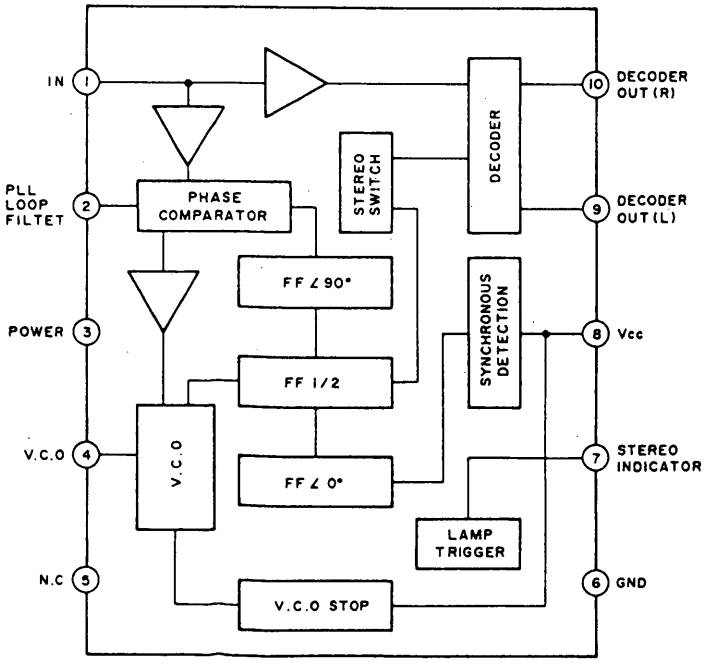
IC101 TA7358F



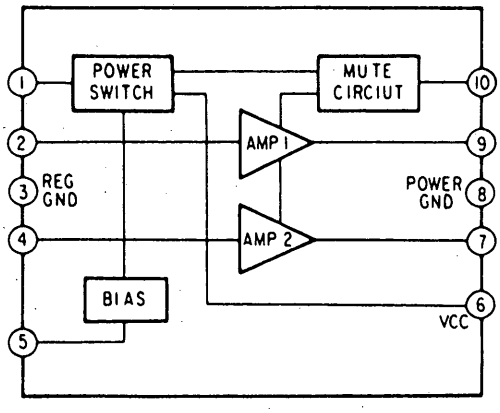
IC201 CXA1111N



IC301 LA3335M



IC302 LA4533M



4-3. IC PIN DESCRIPTION

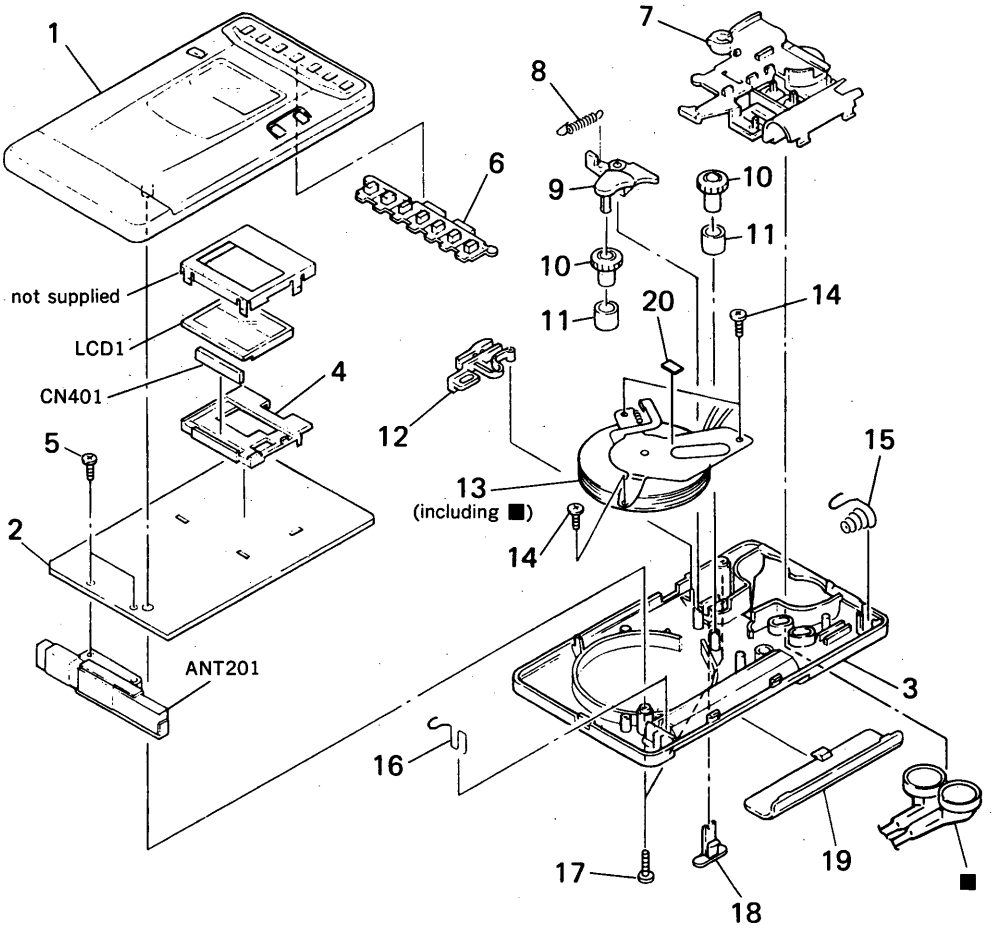
• IC401 μPD1724GB-663-1A7 (System Control/LCD Drive)

Pin No.	Signal	Pin Name	I/O	Pin Description
1 | 10	LCD10 | LCD1	LCD10 | LCD1	O	• Segment signal output to LCD panel.
11	NC	NC	—	Not used.
12 | 14	COM3 | COM1	COM3 | COM1	O	• Remote control signal output to LCD panel.
15 16 17 18	VSS3 CAP1 CAP2 VSS2	—	—	• Used to connect capacitor for doubler circuit to produce LCD drive voltage.
19	VDP	(MUTE)	O	• Muting signal output to prevent shock and switching noise during tuning operation and noise during serial communication. • Active Low
20	CGP	BEEP	O	Buzzer signal output (3kHz selected)
21	NC	NC	—	Not used.
22	VDD	VDD		3V power supply input
23	VCOH	VHF	I	TV VCO input
24	VCOM	HF	I	FM VCO input
25	VCOL	AM	I	AM VCO input
26	VSS1	GND	—	GND pin for the IC.
27	EO1	EO1	—	Not used.
28	EO2	EO2	O	PLL error output
29	CE	CE	I	Select signal input to determine whether the IC is operated or not. Set this High to operate the IC normally and Low not to operate it.
30	X2	XO	O	Used to connect crystal oscillator for oscillation of 75kHz.
31	X1	XI	I	
32	VSS4	(REG)	—	Used to connect capacitor for regulator circuit.
33	PA3	PA3	I/O	Power control input
34	PA2	PA2	I/O	Initialize input (3BAND/2BAND: 3BAND)
35	PA1	PA1	I/O	Initialize output (9kHz/10kHz select: 3BAND/2BAND)
36	PA0	PA0	I/O	Initialize input (9kHz/10kHz select: 10kHz)
37	PB3	TV4-12CH	O	TV/RADIO select signal output. High for TV (4-12CH) and Low for RADIO.
38	PB2	AM/FM	O	BAND select signal output. High for AM and Low for FM/TV.
39	PB1	POWER	O	POWER ON/OFF signal output. High for ON and Low for OFF.
40	PB0	TV MODE	O	TV MODE select signal output. High for TV ST and Low for TV MONO.
41-44	PC3-PC0	KEY SCAN2	O	Key source signal output
45-48	K3-K0	KEY RET3-0	I	Key return signal input. Used with PC1 key.
49, 50	NC	NC	—	Not used.
51 | 56	LCD16 | LCD11	LCD16 | LCD11	O	Segment signal output to LCD panel.

SECTION 5
EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories and packing materials are given in the last of this parts list.



Ref. No.	Part No.	Description	Remark
1	X-3370-458-1	CABINET (FRONT) ASSY	
* 2	A-3679-657-A	MAIN BOARD, COMPLETE	
3	3-388-883-21	CABINET (REAR)	
4	3-388-889-01	HOLDER, LCD	
5	3-895-823-11	SCREW (B1.4X3), TAPPING	
6	3-388-885-11	BUTTON (MEMORY)	
7	3-388-905-04	COVER	
8	3-389-811-01	SPRING (A), TENSION	
9	3-388-912-01	LEVER (ROLLER)	
10	3-388-903-01	SHAFT, ROLLER	
11	3-388-904-01	ROLLER (RUBBER)	
12	3-388-887-01	KNOB (REWIND)	
13	A-3635-884-A	REEL ASSY	
14	3-384-797-01	SCREW	
15	3-388-892-01	TERMINAL (-), BATTERY	
16	3-388-891-01	TERMINAL (+), BATTERY	
17	3-363-895-01	SCREW (M1.7)	
18	3-388-886-01	KNOB (MONO/ST)	
19	3-388-884-11	LID, BATTERY CASE	
20	3-485-343-11	CUSHION, CABINET UPPER 10X7X0.3	
ANT201	1-501-597-11	ANTENNA, FERRITE-ROD (AM)	
CN401	1-537-516-11	CONDUCTIVE BOARD, CONNECTION	
LCD1	1-810-049-11	DISPLAY PANEL, LIQUID CRYSTAL	

SECTION 6
ELECTRICAL PARTS LIST

MAIN

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA ..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-3679-657-A	MAIN BOARD, COMPLETE			
		**********			
	3-388-889-01	HOLDER, LCD			
	3-895-823-11	SCREW (B1.4X3), TAPPING			
		< ANTENNA >			
ANT201	1-501-597-11	ANTENNA, FERRITE-ROD (AM)			
		< CAPACITOR >			
C101	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C103	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C104	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C106	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C107	1-162-907-11	CERAMIC CHIP	2PF	0.25PF 50V	
C108	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C110	1-162-917-11	CERAMIC CHIP	15PF	5% 50V	
C111	1-162-907-11	CERAMIC CHIP	2PF	0.25PF 50V	
C112	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C113	1-135-254-11	TANTAL. CHIP	47uF	20% 4V	
C114	1-164-155-11	CERAMIC CHIP	75PF	5% 50V	
C115	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C116-118					
	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C201	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C202	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C203	1-164-357-11	CERAMIC CHIP	1000PF	5% 50V	
C204	1-164-357-11	CERAMIC CHIP	1000PF	5% 50V	
C205	1-162-908-11	CERAMIC CHIP	3PF	0.25PF 50V	
C206	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C207	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C208	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C209	1-162-907-11	CERAMIC CHIP	2PF	0.25PF 50V	
C210	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C211	1-162-907-11	CERAMIC CHIP	2PF	0.25PF 50V	
C212	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C213	1-165-325-11	CERAMIC CHIP	680PF	2% 50V	
C214	1-165-324-11	CERAMIC CHIP	82PF	2% 50V	
C215	1-165-323-11	CERAMIC CHIP	22PF	2% 50V	
C216	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C217	1-135-234-11	TANTAL. CHIP	10uF	20% 4V	
C218	1-164-315-11	CERAMIC CHIP	470PF	5% 50V	
C219	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C220	1-135-234-11	TANTAL. CHIP	10uF	20% 4V	
C221	1-164-346-11	CERAMIC CHIP	1uF	16V	
C222	1-164-471-11	CERAMIC CHIP	680PF	5% 50V	
C223	1-164-346-11	CERAMIC CHIP	1uF	16V	
C226	1-164-227-11	CERAMIC CHIP	0.022uF	10% 25V	
C227	1-135-254-11	TANTAL. CHIP	47uF	20% 4V	
C228	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C229	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	
C230	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C301	1-135-234-11	TANTAL. CHIP	10uF	20% 4V	
C303	1-164-346-11	CERAMIC CHIP	1uF	16V	
C304	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C305	1-163-275-11	CERAMIC CHIP	0.001uF	5% 50V	
C306	1-164-346-11	CERAMIC CHIP	1uF	16V	
C307	1-164-245-11	CERAMIC CHIP	0.015uF	10% 25V	
C308	1-164-245-11	CERAMIC CHIP	0.015uF	10% 25V	
C309	1-164-005-11	CERAMIC CHIP	0.47uF	25V	
C310	1-164-005-11	CERAMIC CHIP	0.47uF	25V	
C311	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C312	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C313	1-135-252-11	TANTAL. CHIP	22uF	20% 4V	
C314-316					
	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C317-319					
	1-110-967-11	TANTAL. CHIP	100uF	20% 4V	
C320	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C321	1-162-927-11	CERAMIC CHIP	100PF	5% 50V	
C322	1-164-346-11	CERAMIC CHIP	1uF	16V	
C401	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C403	1-162-568-11	CERAMIC CHIP	0.33uF	10% 16V	
C404	1-162-957-11	CERAMIC CHIP	220PF	5% 50V	
C406	1-164-346-11	CERAMIC CHIP	1uF	16V	
C409	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C410	1-162-970-11	CERAMIC CHIP	0.01uF	10% 25V	
C411	1-164-156-11	CERAMIC CHIP	0.1uF	25V	
C412	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	
C413	1-162-964-11	CERAMIC CHIP	0.001uF	10% 50V	

MAIN

Ref. No.	Part No.	Description			Remark
C414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C415	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C416	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C417	1-164-185-11	CERAMIC CHIP	13PF	5%	50V
C418	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C419	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C422	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C423-426					
	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C427	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C428	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C429	1-162-907-11	CERAMIC CHIP	2PF	0.25PF	50V
C430	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C431	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C432	1-135-234-11	TANTAL. CHIP	10uF	20%	4V
C434	1-126-246-11	ELECT CHIP	220uF	20%	4V
C435	1-135-339-11	TANTAL. CHIP	150uF	20%	4V
C436	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C437	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C438	1-135-339-11	TANTAL. CHIP	150uF	20%	4V
C439	1-135-339-11	TANTAL. CHIP	150uF	20%	4V
C441-444					
	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C526	1-164-346-11	CERAMIC CHIP	1uF		16V
		< FILTER >			
CF201	1-579-920-21	FILTER, CERAMIC			
CF202	1-579-214-21	FILTER, CERAMIC			
CF204	1-577-312-91	FILTER, CERAMIC			
		< CONNECTOR >			
CN401	1-537-516-11	CONDUCTIVE BOARD, CONNECTION			
		< TRIMMER >			
CT101	1-141-327-11	CAP, VAR, TRIMMER (CHIP TYPE)	10PF		
CT201	1-141-327-11	CAP, VAR, TRIMMER (CHIP TYPE)	10PF		
CT202	1-141-327-11	CAP, VAR, TRIMMER (CHIP TYPE)	10PF		
		< DIODE >			
D102	8-713-100-11	DIODE	1T362		
D103	8-713-100-11	DIODE	1T362		
D104	8-719-988-62	DIODE	1SS355		
D201	8-719-023-99	DIODE	KV1563M-3		
D202	8-719-002-81	DIODE	1T363		
D203	8-719-002-81	DIODE	1T363		
D301	8-719-800-76	DIODE	1SS226		
D302	8-719-988-62	DIODE	1SS355		
D304	8-719-988-62	DIODE	1SS355		
D305	8-719-941-86	DIODE	DAN202U		
D401	8-719-988-62	DIODE	1SS355		
D403	8-719-988-62	DIODE	1SS355		
D404	8-719-420-87	DIODE	MA8130		
		< IC >			
IC101	8-759-206-38	IC	TA7358F-N		
IC201	8-752-065-30	IC	CXA1111N		
IC301	8-759-804-98	IC	LA3335M		
IC302	8-759-802-75	IC	LA4533M		
IC401	8-759-252-63	IC	uPD1724GB-663-1A7		
IC402	8-759-070-03	IC	S-80719AN-DG-S		
IC403	8-759-167-71	IC	S-80722AN-DK-T1		
		< JUMPER RESISTOR >			
JC201	1-216-864-11	METAL CHIP	0	5%	1/16W
JC202	1-216-864-11	METAL CHIP	0	5%	1/16W
JC301	1-216-864-11	METAL CHIP	0	5%	1/16W
JC302	1-216-864-11	METAL CHIP	0	5%	1/16W
		< COIL >			
L101	1-410-800-31	INDUCTOR	0.027uH		
L102	1-410-801-31	INDUCTOR	0.033uH		
L201	1-406-867-11	COIL (WITH CORE)			
L202	1-412-931-11	INDUCTOR	0.22uH		
L203	1-410-731-31	INDUCTOR CHIP	0.15uH		
L204	1-406-493-11	COIL (AM OSC)			
L301	1-412-947-11	INDUCTOR	4.7uH		
L302	1-412-947-11	INDUCTOR	4.7uH		
L303	1-412-002-31	INDUCTOR CHIP	4.7uH		
		< LIQUID CRYSTAL DISPLAY >			
LCD1	1-810-049-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< TRANSISTOR >			
Q101	8-729-423-52	TRANSISTOR	2SC3931-C		
Q102	8-729-423-52	TRANSISTOR	2SC3931-C		
Q103	8-729-402-16	TRANSISTOR	XN4608		
Q201	8-729-423-52	TRANSISTOR	2SC3931-C		
Q202	8-729-800-71	TRANSISTOR	2SB815B7-TB		
Q203	8-729-921-08	TRANSISTOR	DTC144TU		
Q205	8-729-230-63	TRANSISTOR	2SC4116-YG		
Q206	8-729-921-08	TRANSISTOR	DTC144TU		
Q207	8-729-402-16	TRANSISTOR	XN4608		
Q301	8-729-402-16	TRANSISTOR	XN4608		
Q401	8-729-220-93	TRANSISTOR	2SK209-G		
Q402	8-729-230-63	TRANSISTOR	2SC4116-YG		
Q403	8-729-230-63	TRANSISTOR	2SC4116-YG		
Q406	8-729-402-13	TRANSISTOR	XN1501		
Q407	8-729-402-16	TRANSISTOR	XN4608		

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R101	1-216-805-11	METAL CHIP	47	5%	1/16W
R103	1-216-845-11	METAL CHIP	100K	5%	1/16W
R104	1-216-845-11	METAL CHIP	100K	5%	1/16W
R105	1-216-843-11	METAL CHIP	68K	5%	1/16W
R106	1-216-809-11	METAL CHIP	100	5%	1/16W
R107	1-216-813-11	METAL CHIP	220	5%	1/16W
R108	1-216-847-11	METAL CHIP	150K	5%	1/16W
R109	1-216-797-11	METAL CHIP	10	5%	1/16W
R110	1-216-819-11	METAL CHIP	680	5%	1/16W
R111	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R112	1-216-797-11	METAL CHIP	10	5%	1/16W
R113	1-216-845-11	METAL CHIP	100K	5%	1/16W
R114	1-216-833-11	METAL CHIP	10K	5%	1/16W
R201	1-216-833-11	METAL CHIP	10K	5%	1/16W
R202	1-216-857-11	METAL CHIP	1M	5%	1/16W
R203	1-216-845-11	METAL CHIP	100K	5%	1/16W
R204	1-216-845-11	METAL CHIP	100K	5%	1/16W
R205	1-216-857-11	METAL CHIP	1M	5%	1/16W
R206	1-216-857-11	METAL CHIP	1M	5%	1/16W
R207	1-216-837-11	METAL CHIP	22K	5%	1/16W
R208	1-216-813-11	METAL CHIP	220	5%	1/16W
R209	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R210	1-216-857-11	METAL CHIP	1M	5%	1/16W
R211	1-216-857-11	METAL CHIP	1M	5%	1/16W
R212	1-216-813-11	METAL CHIP	220	5%	1/16W
R213	1-216-815-11	METAL CHIP	330	5%	1/16W
R216	1-216-833-11	METAL CHIP	10K	5%	1/16W
R217	1-216-845-11	METAL CHIP	100K	5%	1/16W
R218	1-216-841-11	METAL CHIP	47K	5%	1/16W
R220	1-216-821-11	METAL CHIP	1K	5%	1/16W
R222	1-216-864-11	METAL CHIP	0	5%	1/16W
R223	1-216-809-11	METAL CHIP	100	5%	1/16W
R224	1-216-841-11	METAL CHIP	47K	5%	1/16W
R225	1-216-815-11	METAL CHIP	330	5%	1/16W
R226	1-216-833-11	METAL CHIP	10K	5%	1/16W
R231	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R301	1-216-838-11	METAL CHIP	27K	5%	1/16W
R302	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R303	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R304-306	1-216-793-11	METAL GLAZE	4.7	5%	1/16W
R307	1-216-817-11	METAL CHIP	470	5%	1/16W
R308	1-216-817-11	METAL CHIP	470	5%	1/16W
R309	1-216-841-11	METAL CHIP	47K	5%	1/16W
R310	1-216-845-11	METAL CHIP	100K	5%	1/16W
R311	1-216-821-11	METAL CHIP	1K	5%	1/16W
R312	1-216-821-11	METAL CHIP	1K	5%	1/16W
R314	1-216-841-11	METAL CHIP	47K	5%	1/16W
R315	1-216-845-11	METAL CHIP	100K	5%	1/16W
R316	1-216-864-11	METAL CHIP	0	5%	1/16W
R401	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R402-404	1-216-833-11	METAL CHIP	10K	5%	1/16W
R406	1-216-797-11	METAL CHIP	10	5%	1/16W
R407	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R408	1-216-817-11	METAL CHIP	470	5%	1/16W
R409	1-216-845-11	METAL CHIP	100K	5%	1/16W
R410	1-216-845-11	METAL CHIP	100K	5%	1/16W
R411-417	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R427	1-216-857-11	METAL CHIP	1M	5%	1/16W
R428	1-216-857-11	METAL CHIP	1M	5%	1/16W
R429	1-216-809-11	METAL CHIP	100	5%	1/16W
R430	1-216-821-11	METAL CHIP	1K	5%	1/16W
R431	1-216-845-11	METAL CHIP	100K	5%	1/16W
R432	1-216-845-11	METAL CHIP	100K	5%	1/16W
R433	1-216-841-11	METAL CHIP	47K	5%	1/16W
R434	1-216-797-11	METAL CHIP	10	5%	1/16W
R435	1-216-841-11	METAL CHIP	47K	5%	1/16W
R436	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R440-444	1-216-821-11	METAL CHIP	1K	5%	1/16W
R445-449	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R511	1-216-833-11	METAL CHIP	10K	5%	1/16W
		< NETWORK RESISTOR >			
RB401-403	1-236-631-11	RES, NETWORK 2.2KX3			
		< VARIABLE RESISTOR >			
RV301	1-223-275-11	RES, ADJ, CERMET 10K			
RV302	1-238-334-11	RES, VAR, CARBON 10K/10K (VOL)			
		< SWITCH >			
S201	1-571-275-11	SWITCH, SLIDE (STEREO/MONO SELECT)			
S401	1-692-453-11	SWITCH, KEY BOARD (1)			
S402	1-692-453-11	SWITCH, KEY BOARD (2)			
S403	1-692-453-11	SWITCH, KEY BOARD (3)			
S404	1-692-453-11	SWITCH, KEY BOARD (4)			
S405	1-692-453-11	SWITCH, KEY BOARD (5)			
S406	1-692-453-11	SWITCH, KEY BOARD (6)			
S407	1-692-453-11	SWITCH, KEY BOARD (7)			
S408	1-692-135-21	SWITCH, KEY BOARD (ENTER/CLOCK)			
S409	1-692-135-21	SWITCH, KEY BOARD (AREA)			
S410	1-692-088-51	SWITCH, TACTILE (BAND)			

MAIN

Ref. No.	Part No.	Description	Remark
S411	1-692-088-51	SWITCH, TACTILE (POWER/AUTO OFF)	
S412	1-692-453-11	SWITCH, KEY BOARD (AREA/MY)	
S413	1-692-453-11	SWITCH, KEY BOARD (TUNE/TIME SET -)	
S414	1-692-453-11	SWITCH, KEY BOARD (TUNE/TIME SET +)	
S415	1-692-135-21	SWITCH, KEY BOARD (TIMER)	
S420	1-571-275-11	SWITCH, SLIDE (9/10kHz SELECT)	
		< TRANSFORMER >	
T101	1-416-020-11	TRANSFORMER, IF (TV IFT)	
T201	1-406-712-11	TRANSFORMER, IF (AM IFT)	
T401	1-449-021-21	COIL, DC-DC CONVERTER	
		< VIBRATOR >	
X401	1-579-744-21	VIBRATOR, CRYSTAL (75kHz)	

****

ACCESSORIES & PACKING MATERIALS

****

	3-389-008-01	CASE, CARRYING	
	3-798-665-11	MANUAL, INSTRUCTION (JAPANESE, ENGLISH, KOREAN)	
	3-800-626-01	INSTRUCTION (A7 SIZE) (JAPANESE)	
*	3-930-470-01	INDIVIDUAL CARTON	

9-960-042-11

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